

Assessment Impact by Course Objectives
Palau Community College
Program (AM) - Automotive Mechanics Technology

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CLO: AM 213 - Automotive Air Conditioning: CLO 1

Service Car Air-conditioning System

CLO Assessment Cycle: 2014-2015 (Fall 2014)

CLO Status: Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
Name car Air-conditioning System parts and components and explain their operating principle, and analyze cause and effect involving car air-conditioning system problems.	70% of the students assessed will perform at the proficiency level.		Yes
Signature assignment: Final Exam			
Perform A/C refrigerant recovery and evacuation, Charge A/C refrigerant, Add refrigerant oil, Check refrigerant lines for leakage.	70% of the students assessed will perform at the proficiency level.		Yes
Signature assignment: Practical Application Skill Test			

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Practical Application Skill Test - 12/30/2015 - 62.5% of the students assessed performed at the proficiency level. Expected Student Performance Met: No Related Documents: AM-213 scan skills fall 2015.pdf	12/30/2015 - Actual results: 10 out of 16 students are proficient; 2 are competent and 8 are highly competent. Therefore, 62.5% of the students assessed passed the skills assessment. Analyzed results: The students need more hands-on practice and experience to improve their skills on CLO #1. Recommendations: Revise this course to accommodate technology update. Action Plan: Revision must be done before February 2016.		2015-2016 (Fall 2015)

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Final Exam - 12/30/2015 - 25% of the students assessed performed at the proficiency level. Expected Student Performance Met: No Related Documents: AM-213 knowledge clo 1 fall 2015.pdf	12/30/2015 - Actual results: 4 out of 16 students are proficient; 4 are competent and none is highly competent. Therefore, 25% of the students assessed passed the knowledge test. Analyzed results: Privation on grasping the concepts of car air-conditioning system. Recommendations: Revise this course to accommodate technology update. Action Plan: Revision must be done before February 2016.		2015-2016 (Fall 2015)
Practical Application Skill Test - 04/21/2015 - 100% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: AM213 CLO1-5.pdf	04/21/2015 - No action needed at this time as expected outcome was met.		2014 - 2015 (Fall 2014)
Final Exam - 01/03/2014 - 60% of the students assessed performed at the proficiency level. Expected Student Performance Met: No Related Documents: AM 213 Final Exam.pdf AM 213 Midterm.pdf	01/03/2014 - The expected student outcome was not achieved because of the lack of tools, supplies and materials to deliver the course content; students missing classes. The following action plan is recommended for the next time the course is offered - create a mock-up trainer on automotive air conditioning so that students will be able to do activities in occasions where the actual care air conditioning unit is not available; instill to the students the importance of attending class on time and regularly; and strengthen attendance policy on tardiness and absenteeism.		2013 - 2014 (Fall 2013)

CLO: AM 213 - Automotive Air Conditioning: CLO 2

Service Car Air-con Compressor Unit

CLO Assessment Cycle: 2014-2015 (Fall 2014)

CLO Status: Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active

Means of Assessment

Means of Assessment	Expected Student Performance	Notes	Active
Name Car Air-con Compressor parts and components, differentiate their classification and analyze cause and effect involving car air-con compressor problems.	70% of the students assessed will perform at the proficiency level.		Yes
Signature assignment: Final Exam			
Check A/C compressor internal leakage, Check A/C compressor external leakage, Check A/C compressor unusual noise, Check A/C compressor magnetic clutch operation, Service A/C compressor assembly, service ABS modulator unit, Measure control module input and output voltage.	70% of the students assessed will perform at the proficiency level.		Yes
Signature assignment: Practical Application Skill Test			

Results

Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Practical Application Skill Test - 12/30/2015 - 75% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: AM-213 scan skills fall 2015.pdf	12/30/2015 - Actual results: 12 out of 16 students are proficient; 6 are competent and 6 are highly competent. Therefore, 75% of the students assessed passed the skills assessment. Analyzed results: The students need more hands-on practice and experience to improve their skills on CLO #2. Recommendations: Revise this course to accommodate technology update. Action Plan: Revision must be done before February 2016.		2015-2016 (Fall 2015)
Final Exam - 12/30/2015 - 68.75% of the students assessed performed at the proficiency level. Expected Student Performance Met: No Related Documents: AM-213 knowledge clo 2, 3, 4, & 5 fall 2015.pdf	12/30/2015 - Actual results: 11 out of 16 students are proficient; 4 are competent and 7 are highly competent. Therefore, 68.75% of the students assessed passed the knowledge test. Analyzed results: Privation on grasping the concepts of car air-con compressor unit. Recommendations: Revise this course to accommodate technology update. Action Plan:		2015-2016 (Fall 2015)

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Revision must be done before February 2016.			
Practical Application Skill Test - 04/21/2015 - 100% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: AM213 CLO1-5.pdf	04/21/2015 - No action taken at this time as expected outcome was met.		2014 - 2015 (Fall 2014)
Final Exam - 01/03/2014 - 60% of the students assessed performed at the proficiency level. Expected Student Performance Met: No Related Documents: AM 213 Final Exam.pdf AM 213 Midterm.pdf	01/03/2014 - The expected student outcome was not achieved because of the lack of tools, supplies and materials to deliver the course content; students missing classes. The following action plan is recommended for the next time the course is offered - create a mock-up trainer on automotive air conditioning so that students will be able to do activities in occasions where the actual car air conditioning unit is not available; instill to the students the importance of attending class on time and regularly; and strengthen attendance policy on tardiness and absenteeism.		2013 - 2014 (Fall 2013)

CLO: AM 213 - Automotive Air Conditioning: CLO 3

Service Car Air-con Cooling Unit

CLO Assessment Cycle: 2014-2015 (Fall 2014)

CLO Status: Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
Explain Car Air-con Evaporator Unit operating principles and their specification and analyze cause and effect involving car air-con cooling unit problem. Signature assignment: Final Exam	70% of the students assessed will perform at the proficiency level.		Yes
Clean A/C evaporator assembly for blockage and leakage, Check and replace expansion valve assembly, Check thermistor resistance value, Clean and install glove box compartment drain hose, Service A/C evaporator blower. Signature assignment: Practical Application Skill Test	70% of the students assessed will perform at the proficiency level.		Yes

Results

Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
<p>Practical Application Skill Test - 12/30/2015 - 75% of the students assessed performed at the proficiency level.</p> <p>Expected Student Performance Met: Yes</p> <p>Related Documents: AM-213 scan skills fall 2015.pdf</p>	<p>12/30/2015 - Actual results: 12 out of 16 students are proficient; 4 are competent and eight are highly competent. Therefore, 75% of the students assessed passed the skills assessment.</p> <p>Analyzed results: The students need more hands-on practice and experience to improve their skills on CLO #3.</p> <p>Recommendations: Revise this course to accommodate technology update.</p> <p>Action Plan: Revision must be done before February 2016.</p>		2015-2016 (Fall 2015)
<p>Final Exam - 12/30/2015 - 62.5% of the students assessed performed at the proficiency level.</p> <p>Expected Student Performance Met: No</p> <p>Related Documents: AM-213 knowledge clo 2, 3, 4, & 5 fall 2015.pdf</p>	<p>12/30/2015 - Actual results: 10 out of 16 students are proficient; 10 are competent and none is highly competent. Therefore, 62.5% of the students assessed passed the knowledge test.</p> <p>Analyzed results: Privation on grasping the concepts of car air-con cooling unit servicing.</p> <p>Recommendations: Revise this course to accommodate technology update.</p> <p>Action Plan: Revision must be done before February 2016.</p>		2015-2016 (Fall 2015)
<p>Practical Application Skill Test - 04/21/2015 - 100% of the students assessed performed at the proficiency level.</p> <p>Expected Student Performance Met: Yes</p> <p>Related Documents: AM213 CLO1-5.pdf</p>	<p>04/21/2015 - No action needed at this time as expected outcome was met.</p>		2014 - 2015 (Fall 2014)
<p>Final Exam - 01/03/2014 - 50% of the students assessed performed at the proficiency level.</p> <p>Expected Student Performance Met: Yes</p> <p>Related Documents: AM 213 Final Exam.pdf AM 213 Midterm.pdf</p>	<p>01/03/2014 - The expected student outcome was not achieved because of the lack of tools, supplies and materials to deliver the course content; students missing classes.</p> <p>The following action plan is recommended for the next time the course is offered - create a mock-up trainer on automotive air conditioning so that students will be able to do activities in occasions where the actual care air conditioning unit is not available; instill to the students the importance of</p>		2013 - 2014 (Fall 2013)

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
	attending class on time and regularly; and strengthen attendance policy on tardiness and absenteeism.		

CLO: AM 213 - Automotive Air Conditioning: CLO 4

Service Car Air-con Condensing Unit

CLO Assessment Cycle: 2014-2015 (Fall 2014)

CLO Status: Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
Differentiate classification of Car Air-con Condensing Unit and their specification, explain their operating principle, and analyze cause and effect involving car air-con condensing unit. Signature assignment: Final Exam	70% of the students assessed will perform at the proficiency level.		Yes
Clean and check A/C condenser assembly for blockage and leakage, Check and replace receiver drier assembly, Check cooling fan motor operation. Signature assignment: Practical Application Skill Test	70% of the students assessed will perform at the proficiency level.		Yes

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Practical Application Skill Test - 12/30/2015 - 75% of the students assessed performed at the proficiency level Expected Student Performance Met: Yes Related Documents: AM-213 scan skills fall 2015.pdf	12/30/2015 - Actual results: 12 out of 16 students are proficient; 6 are competent and 6 are highly competent. Therefore, 75% of the students assessed passed the skills test. Analyzed results: The students need more hands-on practice and experience to improve their skills on CLO #4. Recommendations: Revise this course to accommodate technology update. Action Plan: Revision must be done before February 2016.		2015-2016 (Fall 2015)
Final Exam - 12/30/2015 - 31.25% of the students assessed performed at the proficiency level.	12/30/2015 - Actual results: 5 out of 16 students are proficient; 5 are competent		2015-2016 (Fall 2015)

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
<p>Expected Student Performance Met: No</p> <p>Related Documents: AM-213 knowledge clo 2, 3, 4, & 5 fall 2015.pdf</p>	<p>and none is highly competent. Therefore, 31.25% of the students assessed passed the knowledge test.</p> <p>Analyzed results: Privation on grasping the concepts of car air-con condensing unit servicing.</p> <p>Recommendations: Revise this course to accommodate technology update.</p> <p>Action Plan: Revision must be done before February 2016.</p>		
<p>Practical Application Skill Test - 04/21/2015 - 100% of the students assessed performed at the proficiency level.</p> <p>Expected Student Performance Met: Yes</p> <p>Related Documents: AM213 CLO1-5.pdf</p>	<p>04/21/2015 - No action needed at this time as expected outcome was met.</p>		2014 - 2015 (Fall 2014)
<p>Final Exam - 01/03/2014 - 70% of the students assessed performed at the proficiency level.</p> <p>Expected Student Performance Met: Yes</p> <p>Related Documents: AM 213 Final Exam.pdf AM 213 Midterm.pdf</p>	<p>01/03/2014 - The expected student outcome was not achieved because of the lack of tools, supplies and materials to deliver the course content; students missing classes.</p> <p>The following action plan is recommended for the next time the course is offered - create a mock-up trainer on automotive air conditioning so that students will be able to do activities in occasions where the actual care air conditioning unit is not available; instill to the students the importance of attending class on time and regularly; and strengthen attendance policy on tardiness and absenteeism.</p>		2013 - 2014 (Fall 2013)

CLO: AM 213 - Automotive Air Conditioning: CLO 5

Service Car Air-con Electrical System

CLO Assessment Cycle: 2014-2015 (Fall 2014)

CLO Status: Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active

Means of Assessment

Means of Assessment	Expected Student Performance	Notes	Active
<p>Explain Car Air-conditioning Temperature Control operating principle and their specification, and analyze cause and effect involving car air-con electrical system problem.</p> <p>Signature assignment: Final Exam</p>	70% of the students assessed will perform at the proficiency level.		Yes
<p>Service Manual temperature switch, Check / Replace automatic temperature switch, Check / Replace A/C amplifier, Check / Replace thermostatic cycling switch, Check / replace pressure cycling switch, Check and adjust A/C actuator, Service A/C electrical main components, Check / replace A/C relay, Check / replace Vacuum switching valve, Check / replace water temperature switch, Check magnetic clutch circuit.</p> <p>Signature assignment: Practical Application Skill Test</p>	70% of the students assessed will perform at the proficiency level.		Yes

Results

Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
<p>Practical Application Skill Test - 12/30/2015 - 37.5% of the students assessed performed at the proficiency level</p> <p>Expected Student Performance Met: No</p> <p>Related Documents: AM-213 scan skills fall 2015.pdf</p>	<p>12/30/2015 - Actual results: 6 out of 16 students are proficient; 4 are competent and 2 are highly competent. Therefore, 37.5% of the students assessed passed the skills test.</p> <p>Analyzed results: The students need more hands-on practice and experience to improve their skills on CLO #5.</p> <p>Recommendations: Revise this course to accommodate technology update.</p> <p>Action Plan: Revision must be done before February 2016.</p>		2015-2016 (Fall 2015)
<p>Final Exam - 12/30/2015 - 43.75% of the students assessed performed at the proficiency level.</p> <p>Expected Student Performance Met: No</p> <p>Related Documents: AM-213 knowledge clo 2, 3, 4, & 5 fall 2015.pdf</p>	<p>12/30/2015 - Actual results: 7 out of 16 students are proficient; 6 are competent and one is highly competent. Therefore, 43.75% of the students assessed passed the knowledge test.</p> <p>Analyzed results: Privation on grasping the concepts of car air-con electrical system.</p> <p>Recommendations: Revise this course to accommodate technology update.</p> <p>Action Plan:</p>		2015-2016 (Fall 2015)

Results

Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Revision must be done before February 2016.			
Practical Application Skill Test - 04/21/2015 - 100% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: AM213 CLO1-5.pdf	04/21/2015 - No action needed at this time as expected outcome was met.		2014 - 2015 (Fall 2014)
Final Exam - 01/03/2014 - 40% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: AM 213 Final Exam.pdf AM 213 Midterm.pdf	01/03/2014 - The expected student outcome was not achieved because of the lack of tools, supplies and materials to deliver the course content; students missing classes. The following action plan is recommended for the next time the course is offered - create a mock-up trainer on automotive air conditioning so that students will be able to do activities in occasions where the actual care air conditioning unit is not available; instill to the students the importance of attending class on time and regularly; and strengthen attendance policy on tardiness and absenteeism.		2013 - 2014 (Fall 2013)